Atmosphere Investigation

Integrated 1-Day Data Sheet

School Name: _____

Observer names: _____

_____

Date: Year_____ Month_____ Day_____ Study Site: ATM-_____

Local Time (hour:min):_____ Universal Time (hour:min):_____

Cloud Type *(Check all types seen)*

High:	❒ Cirrostratus	❒ Cirrus	❒ Cirrocumulus
Middle:	❒ Altostratus		❒ Altocumulus
Low:	❒ Stratus	❒ Stratocumulus	❒ Cumulus
Rain or Snow-Producing:	❒ Nimbostratus		❒ Cumulonimbus

Contrail Type *(Record the number of each type observed)*

Short-lived_____ Persistent Non-Spreading_____ Persistent Spreading_____

Cloud Cover *(Check one- if sky not obscured)*

❒ No Clouds (0%) ❒ Clear (0% - 10%) ❒ Isolated (10% - 25%) ❒ Scattered (25% - 50%) ❒ Broken (50% - 90%) ❒ Overcast (90% - 100%) ❒ Sky obscured

Contrail Cover *(Check one- if sky not obscured)*

❒ None ❒ 0-10% ❒ 10-25% ❒ 25-50% ❒ >50%

If Sky Obscured *(Check all that apply)*

❒ Fog ❒ Smoke ❒ Haze ❒ Volcanic ash ❒ Dust ❒ Sand ❒ Spray ❒ Heavy rain
❒ Heavy snow ❒ Blowing snow

Barometric Station Pressure

Barometric Pressure (mbar): _____❒ Sea Level Pressure ❒ Station Pressure

Local Time (Hour:Min)*_____

Universal Time (Hour:Min)*_____

* If different from other measurements

Relative Humidity

Dry bulb temperature* (°C): _____

(note: Current air temp. and dry bulb temp. should be similar)

Wet bulb temperature* (°C): _____

* Sling Psychrometer only.

Relative Humidity (%): _____

School Name _____ Study Site: ATM-_____

Rainfall

Number of days rain has accumulated: _____

Rainwater in rain gauge (mm)*: _____

**Remember: enter 0.0 when there has been no rainfall.*
Record M for missing if there was rain and you weren't able to take an accurate reading.
Record T for trace if the amount of rainfall is less than 0.5 mm.

Snowfall

Daily: Number of days snow has accumulated on the snowboard: _____

Depth of new snow on the snowboard* (mm):

Sample 1: _____ Sample 2: _____ Sample 3: _____

Snow Pack: Total snow accumulation on the ground (mm):

Sample 1: _____ Sample 2: _____ Sample 3: _____

Rain equivalent of:

1. New snow on the snow board (mm): _____2. Total snowpack on the ground (mm): _____

** Remember: Record 0 when there has been no snowfall.*
Record M for missing if there was snow and you weren't able to take an accurate reading.
Record T for trace amount of snowfall (too small to measure).

Precipitation pH

Measurement method for pH: ❒ paper ❒ meter

pH of the rain or melted snow:

Sample 1:_____ Sample 2:_____ Sample 3:_____ Average: _____

pH of the melted snow pack:

Sample 1:_____ Sample 2:_____ Sample 3:_____ Average: _____

Maximum, Minimum, and Current Temperatures

Current air temperature: (°C) _____

Maximum daily air temperature: (°C) _____

Minimum daily air temperature: (°C) _____

Current soil temperature: (°C)*_____

Maximum daily soil temperature: (°C)* _____

Minimum daily soil temperature: (°C)* _____

*Note: Daily soil temperature measurements apply to those using a digital max/min thermometer with a soil probe.

Comments (Unusual conditions):

_____

_____

_____